

REMARKS

Prior to first action by the Examiner, Applicant has amended the specification to correct for certain typographical errors inadvertently contained therein.

Attached hereto is a mark-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "Version with Markings to Show Changes Made."

Favorable action is courteously solicited.

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Specification

Page 2, cancel lines 17-22, and rewrite the paragraph as follows:

By this combination of the photodetector arrays and of the support bearing uniformly distributed points optically detectable by the photodetector arrays, the positions of the mobile component and its displacements around two or three axes of rotation may be determined over large angular displacements, typically larger than [450] 45⁰ and which may attain [1800] 180⁰ or even [36010] 360⁰ around at least one aforementioned axis.

Page 3, cancel lines 21-25, and rewrite the paragraph to read as follows:

Generally, the invention is applicable to control handles of the "joystick" type which may be used with video game consoles and computers, to measuring systems which use ball pivot mounted components, to prostheses, [to robotic systems,] joints of robotic systems, and to any device with a jointed lever around two or three axes of rotation, notably gearshift levers for motor vehicles.

Page 7, cancel lines 16-21, and rewrite the paragraph to read:

This determination is repeated for tracking the displacement of the lever 10. After having determined the locations of the centers of the detected points 26, their displacements are determined from the offset between their positions in two successive [11] determinations. In order not to lose the points between these two successive determinations, the corresponding displacements of the points must be less than the radius of the points.

In the Claims:

Amend claim 13 to read as follows:

13. A device according to claim 1, wherein the information processing means comprise programmed means for determining the positions of the said points with respect to said photodetector arrays and for tracking the trajectories of said points upon displacements of the mobile component, said programmed means being programmed for first searching in each array for a group of three photodetectors seeing a same point, and then among the remaining photodetectors, for a group of two photodetectors seeing a

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same point and comprising a central photodetector, and then among the remaining photodetectors, for the groups of two photodetectors of the contour of the array seeing a point, and then among the remaining photodetectors, for photodetectors each seeing one point or a portion of a point overlapping an edge of an array, and then for determining the positions of the centers of the points seen by the photodetectors, and for repeating these determinations with a sufficient frequency so that the displacements of the points between two successive determinations are less than the radius of a point.